

KHANUKAYEV, A. N.

Doc Tech Sci - (diss) "Waves of stresses in explosion and means for the rational use of their energy in shattering large mountain rock." Moscow, 1961. 53 pp; with illustrations; (Academy of Sciences USSR, Inst of Mining Affairs); 250 copies; price not given; list of author's works on pp 52-53 (10 entries); (KL, 7-61 sup, 231)

KHANUKAYEV, Aleksandr Misanovich; BARANOV, Yevgeniy Gerasimovich; MOSINETS, Vladimir Nikolayevich; MUKHIN, M.Ye., otv. red.; SEMIKINA, T.F., red. izd-va; ANOKHINA, M.G., tekhn. red.

[Experimental study of breaking rock by blasting] Eksperimental'nye issledovaniia protsessa razrusheniia porod vzryvom. Frunze, Izd-vo AN Kirgizskoi SSR, 1961. 133 p. (MIRA 14:11)
(Blasting)

KHANUKAYEV, A.N., kand.tekhn.nauk

Calculating the thickness of interchamber pillars. Gor. zhur.
no.4:23-27 Ap '60. (MIRA 14:6)

1. Leningradskiy gornyy institut.
(Blasting)
(Mining engineering)

KHANUKAYEV, A.N.; VANYAGIN, I.F.; GOGOLEV, V.M.; MYRKIN, V.G.

Propagation of pressure waves in blasting hard rocks. Zap.LGI
44 no.1:118-126 '61. (MIRA 14:10)
(Blasting)

KHANUKAYEV, Aleksandr Nisanovich; ZAKHAROV, M.I., otv. red.; YEROKIN,
G.M., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.

[Energy of stress waves in breaking rocks by blasting]Energia
voln napriazhenii pri razrushenii porod vzryvom. Moskva, Gos-
gortekhnizdat, 1962. 199 p. (MIRA 15:10)

(Blasting)

KHANUKAYEV, A.N.; SAVRASOV, L.K.

Elastic constants of rocks and methods for their determination.
Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 3 no.3:95-102 '61.

(Rocks—Testing) (Ultrasonic testing) (MIRA 15:3)

KHANUKAYEV, A.N., kand.tekhn.nauk; BOROVNIKOV, V.A., gornyy inzhener

Interconnection between the parameters of a shock wave
in a charge holder and a pressure wave in a rock. Vzryv.
delo no.50/7:20-30 '62. (MIRA 15:9)

1. Leningradskiy gornyy institut imeni G.V. Plekhanova.
(Blasting)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721730010-0"

SUKHANOV, A.F., kand.tekhn.nauk, dokt.tekhn.nauk, red.
NAZAROV, Petr Petrovich; KUTUZOV, Boris Nikolayevich;
NEVSKIY, Vladimir Leonidovich; DMITRIYEV, Aleksey
Pavlovich; GOLOVIN, Grigoriy Mikhaylovich; MISNIK,
Yuriy Mikhaylovich; KHANUKAYEV, Aleksandr Nissanovich;
KOROLEVA, T.I., red.izd-va; SHKLYAR, S.Ya., tekhn. red.

[Boring and blasting operations] Burovzryvnye raboty. [By]
A.F.Sukhanov i dr. Moskva, Gosgortekhnizdat, 1962. 242 p.
(Boring) (Blasting) (MIRA 16:9)

KHANUKAYEV, A.N., doktor tekhn. nauk

Effect of radial clearances and air spaces on the parameters
of strain waves and the shattering process. Vzryv. delo
no.54/11:35-47 '64. (MIRA 17:9)

1. Leningradskiy gornyy institut imeni Plskhanova.

KHAYKAYEV, A.N., prof.; BAKIYEV, M.Eh., inst.

Rock breaking in the bench during the blasting of benchside charges.
Izv.vys.ucheb.zav.;gor.zhur. 7 no.9:72-83 '84.

(MIRA 1984)

L. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni
gornyy institut imeni G.V.Plekhanova, Pektchenovskaya kafedra
burevnyykh rabot.

TARANOV, Petr Yakovlevich. KHANUKAYEV, A.N., prof., retsenzent;
BUBOK, V.K., retsenzent; BOROVNIKOV, V.A., retsenzent;
KARPUNOV, Ye.G., retsenzent; MISNIK, Yu.M., retsenzent;
SMIRNOV, N.A., retsenzent; RAZAMAT, V.V., retsenzent;
SAVRASOV, L.M., retsenzent; YURMANOV, Yu.A., retsenzent;
BABICHEV, N.S., retsenzent

[Blasting operations] Burovzryvnye raboty. Izd.2. Moskva, Nedra, 1964. 253 p. (MIRA 18:7)

KHANUKAYEV, A.N., doktor tekhn. nauk, prof.; FADEYIN, A.B., inzh.

Analysis of diagrams, and a simplified formula for determining
the intervals of short-delay blasting in strip mines. Varyv.
dolo no.57/14:52-60 '65. (MIRA 18:11)

1. Leningradskiy gornyy institut.

AUTHOR: None given

SOV/106-59-2-10/11

TITLE: Authors' Certificates (Avtorskiye svidetel'stva)

PERIODICAL: Elektrosvyaz', 1959, Nr 2, p 78 (USSR)

ABSTRACT: S.P. Khlebnikov and P.A. Anikeev - "A Method of Fixing Magnetic Heads in Recording Equipment Using a Rigid Carrier"; G.V. Braude - "A Method for Compensating for Irregular Film Movement in Travelling Beam Tube Systems"; M.G. Garb and V.M. Sigalov - "A Method of Centralised Synchronisation"; D.M. Khanukayev - "A Method of Synchronisation of Colour Television Receivers with Sequential Transmission of Colours by Fields"; B.I. Strelkov - "Trigger Apparatus"; A.I. Sapgir - "A Method of Extraction of Pulses from Pulse Trains"; N.N. Korovyanskiy - "A Method for Reducing the Time of Ascertaining the Transfer Characteristic of a Television Channel"; Karl-Heinz Geistrad and Heinz Lemann (German Democrat Republic) - "Apparatus for Recording Television Talks"; S.I. Yevtyanov - "A Method of Increasing the Stability Factor of an Oscillator (Regime)"; V.M. Zhukov and G.G. Rachkova - "Apparatus for Obtaining Frequency-modulated Pulses"; Yu.I. Serebryakov - "A Method of Cancellation of Constant Radio-echoes"; L.F. Abramova and M.Ye. Gertsenshteyn - "Co-axial Filters with Weak Coupling";

Card1/2

IVANOV, B.T.; SEMENOVSKAYA, Ye.N.; GOL'TSMAN, N.I.; KHANUKAYEV, D.R.

Investigations in the field of perception of stereoscopic image.
Probl. fiziol. opt. 11:70-83 '55.
(MLRA 9:6)

1. Laboratoriya stereokino Vsesoyuznyy nauchno-issledovatel'skiy
kinofotoinstitut,
(VISION,
perception of stereoscopic image (Rus))

KHANUKAYEV, I. N., Cand Tech Sci -- (diss) "Research on the processes for straightening and strengthening shaped, grove-buffing wheels." Moscow, 1960, 21 pages, illustrations; (Ministry of Higher and Specialized Secondary Education RSFSR, All-Union Correspondence Polytechnical Institute); 150 copies, free. (KL, 50-60, 134)

L 32168-66 EWI(m)/T IJP(c) RM/WW/JWD

ACC NR: AP6012137 (A)

SOURCE CODE: UR/0413/66/000/007/0057/0057

INVENTOR: Khanukayeva, I. A.; Faydel', G. I.; Belyanina, Ye. T.; Shlenaya, N. S. 39
B

ORG: none

TITLE: Plasticizing graft styrene copolymers with rubber. Class 39, No. 180332 15

SOURCE: Izobreteniya, promyshlennyye obrastay, tovarnyye znaki, no. 7, 1966, 57

TOPIC TAGS: plasticizer, styrene copolymer, graft copolymer

ABSTRACT: An Author Certificate has been issued describing a method of plasticizing graft styrene copolymers with rubber using plasticizers. To improve the properties of the finished product, a mixture of esters obtained by esterification of synthetic monobasic alcohols containing C7—C9 with synthetic monobasic acids containing C10—C13, C14—20 in the amount of 0.8—3.0% is suggested as the plasticizer. ✓

SUB CODE: 11/ SUBM DATE: 07Jan63

[LD]

Card, 1/1 *20*

UDC: 678.049.13

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15.9000 2109.2202, 15000

S/138/60/000/006/001/008
A051/A029

11.2211

AUTHORS: Berlin, A.A., Khanukayeva, I.A.TITLE: The Production and Main Properties of Grafted Copolymers of Styrene and Rubber.

PERIODICAL: Kauchuk i Rezina, 1960, No. 6, pp. 20 - 22.

TEXT: The article presents the results of an investigation on grafted copolymerization of synthetic rubbers and styrene in aqueous dispersions (latexes) and a solution of the polymer in the monomer. The methods of conducting grafted copolymerization in heterogeneous dispersion systems of polymers and monomers in various liquid mediums have been developed only slightly. The author has previously published an article on the subject (Ref. 7). Butadiene-styrene CKC-30 (SKS-30) and butadiene-acrylonitrile latexes of CKH-18 (SKN-18), CKH-26 (SKN-16), and CKH-40 (SKN-40) rubbers were taken for the investigation. Table 1 shows the results of the comparative characteristics of the rubber and styrene copolymer (in the ratio 33:66), and the mechanical mixture of a similar composition and the initial components. Table 2 gives the figures on the main physico-mechanical pro-

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S/138/60/000/006/001/008
A051/A029

The Production and Main Properties of Grafted Copolymers of Styrene and Rubber

perties of the products of the interaction between the styrene and rubber. The data show that during the reaction an initiated destruction of the rubber and the formation of branched structures takes place. An investigation of the thermomechanical properties showed that the formation of branched structures somewhat decreases the vitrification temperature and the thermostability according to Martens (75 - 78°C instead of 80 - 85°C), but increases the temperature range of the highly elastic state and the temperature of transference to the viscous-fluid state (Ref. 7). The styrene copolymers grafted with butadiene-styrene rubber are not inferior to the so-called latex polystyrene as to their dielectric properties and have a higher resistance. It is noted that a comparatively large amount of rubber is required in the grafted copolymerization in latexes of synthetic rubbers. Apparently in this process the chain transference process takes place with a lack of intensity for the following two reasons: 1) incomplete contact between the rubber particles covered with the emulsifier and the monomer, 2) the presence of antioxidant admixtures, disrupting the growing chains. When conducting grafted copolymerization in the mass, the conditions are

Card 2/3

KHANUKAYEV, I. N., Cand Tech Sci (diss) -- "Investigation of the strength and processes of dressing shaped slot-grinding wheels". Leningrad, 1959. 20 pp (Min Higher and Inter Spec Educ RSFSR, Leningrad Inst of Precision Mech and Optics), 200 copies (KI, No 10, 1960, 133)

KHANUKAYEV, I. N.: Master Tech Sci (diss) -- "Investigation of the setting process and the stability of split-grinding disks". Leningrad, 1959. 26 pp (Min Transportation USSR, Leningrad Order of Lenin Inst of Railroad Transport Engineers im Acad V. N. Obratzsov), 150 copies (KL, No 18, 1959, 126)

BERLIN, A.A.; KHANUKAYEVA, I.A.

Preparation and basic properties of styrene and rubber graft
copolymers. Kauch.i rez. 19 no.6:20-22 Je '60. (MIRA 13:6)

1. Institut khimicheskoy fiziki Akademii nauk SSSR, Kuskovskiy
khimzavod.

(Styrene)

(Rubber)

IMAMALIEVA, G.M.; KHANUKAYEVA, R.S.

Combined treatment in brucellosis with levomycetin and
gamma globulin. Azerb. med. zhur. no.1:21-25 Ja '62.
(BRUCELLOSIS) (CHLOROMYCETIN) (GAMMA GLOBULIN)

MAKHMUDBEKOV, L.A.; KHANUKAYEVA, R.S.

Pathogenesis of recurrences of typhoid fever, their treatment
and prevention. Azerb. med. zhur. 41 no.3:59-63 Mr '64.

(MIRA 17:10)

S07/64-58-6-2/15

AUTHORS: Kurnosov, K. P., Fedotina, Z. Kh. Razumovskiy, S. D.,
Khanukayeva, Yu. I.

TITLE: The Pyrolysis of ~~Light Distillate Oil~~ (pyroliz gazovogo benzina)
Study of Pyrolysis Under Laboratory Conditions (Izucheniye
piroliza v laboratornykh usloviyakh)

PERIODICAL: Khimicheskaya promyshlennost', 1958, Nr 6, pp 330-332 (USSR)

ABSTRACT: In connection with the realization of the plan to step up
the development of the chemical industry also the demand
for ethylene is going to rise rapidly so that it will be-
come necessary to find new sources of raw materials. The
use of liquefied gas obtained from natural gas is of inter-
est from this point of view. Due to the few references obtainable
the present analyses were carried out only on a laboratory
scale. Liquefied gas obtained from Tuymazinsk was used in
the process. The distillation was carried out in a Podbil'-
nyakh column. A schematic drawing of the laboratory unit
used for the pyrolysis is given. The complete analysis of
the gas obtained by pyrolysis was performed by means of the

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The Pyrolysis of Light Distillate Oil
Study of Pyrolysis Under Laboratory Conditions

SOV/64-58-6-2/15

apparatus at TsIATIM and the analysis of the unsaturated compounds and hydrogen by means of the apparatus a.VTI. It is pointed out that no far-reaching decomposition of the gasoline is achieved by the pyrolysis of liquefied gas at temperatures below 800°. A lengthening of the contact time does not result in an increase of the ethylene yield. A comparison of the results obtained proves that the ethylene yield is increased when the contact time is shortened while temperature is increased. Moreover, as a consequence of higher temperature, more acetylene is obtained, which again can be turned into ethylene by hydration. Tests in the presence of steam proved that the total amount of coke, resins, and losses is somewhat lower than in the pyrolysis performed in the absence of steam. According to the authors, optimum conditions are: a temperature of 825-835°, a maximum contact time of 1 second, and a dilution with steam to the extent of 10-15 per cent by weight. There are 5 figures, 1 table, and 1 reference, 1 of which is Soviet.

Card 2/2

KHANUKOV, A. (Leningrad); USOV, I., konstruktor (Leningrad)

New carburetors for automobile engines. Za rul. 19 no.4:22-24
Ap '61. (MIRA 14:7)

1. Rukovoditel' sektora toplivnoy apparatury TSentral'nogo
nauchno-issledovatel'skogo i konstruktorskogo instituta toplivnoy
apparatury avtotraktornykh i statsionarnykh dvigateley (for Khanukov).
(Automobiles—Engines—Carburetors)

KILANUKOV, A.A.; OBRYADIN, V.G.

Criteria for evaluating the engineering standard and reliability of carburetors. Avt. prom. 31 no.2:7-10 F '65.

(MIRA 18:3)

1. TSentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley.

1. KHANUKOV, Ye D
2. USSR (600)
4. Khacaturov, Tigran Sergeevich, 1906-
7. "Railway transportation in the U.S.S.R." T.S. Khachaturov. Reviewed by Ye D. Khanukov. Sov. kniga no.12, 1952
9. Monthly list of Russian Accessions, Library of Congress, March 1953, Unclassified

KHANUKOV, Yevgeniy Davydovich; PESKOVA, L.N., redaktor; VERINA, G.P.,
tekhnicheskiy redaktor

[Transportation and distribution of industries] Transport i razmeshchenie
proizvodstva. Moskva, Gos.transp.zhel-dor. izd-vo, 1955. 411 p.

(MLRA 9:3)

(Russia--Industries) (Russia--Transportation)

GIBSIDMAN, A.Ye.; DANILOV, S.K., professor; DMITRIYEV, V.I.; KORNEYEV, A.I.;
TVERSKOY, K.N.; UMBLIYA, V.M.; KHANUKOV, Ye.D.; GHERNOMCEDIK, D.I.;
CHUDOV, A.S.; SHIL'NIKOV, N.S.; KRISHPAL, L.I., redaktor; KHITROV,
P.A., tekhnicheskii redaktor

[Economics of transportation] Ekonomika transporta. Moskva, Gos.
transp.zhel-dor.izd-vo, 1955. 617 p. (MLRA 9:3)
(Railroads--Finance)

Name: KHANUKOV, Yevgeniy Davydovich

Dissertation: Transport and Distribution
APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730010-0
duction

Degree: Doc Econ Sci

Affiliation: Moscow Transport-Economics Inst

Defense Date, Place: 21 Dec 55, Council of Inst of Economics,
Acad Sci USSR

Certification Date: 1 Dec 56

Source: BMVO 6/57

KHANUKOV, Ye.D., prof.

Railroad transport in the development of the productive forces
of the Soviet Union. Zhel.dor.transp. 39 no.11:21-26 N '57.
(MIRA 10:10)
(Railroads)

DMITRIYEV, Valerian Ivanovich,; KHANUKOV, Ye.D., red.; KRISHTAL', L.I., red.
KHITROV, P.A., tekhn. red.

[Problems in the economics of rolling stock] Voprosy ekonomiki
vagonnogo parka. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 291 p.
(MIRA 11:12)

(Railroads--Rolling stock)

KHANUKOV, Ye.D., prof., doktor ekon. nauk.

Valuable work on the cost of railroad freight transportation ("The
cost of railroad freight transportation" by N.V. Mikhal'tsev.
Reviewed by Ye.D. Khanukov). Zhel. dor. transp. 40 no.2:93-95 F '58.
(Railroads--Freight) (MIRA 11:3)
(Mikhal'tsev, N.V.)

KHACHATUROV, Tigran Sergeyevich; KHANUKOV, Ye.D., red.

[Problems in the economics of transportation] Voprosy ekonomiki
transporta. Moskva, Gos.transp.shel-dor.izd-vo, 1959. 278 p.
(MIRA 13:5)

(Transportation--Cost of operation)

KHANUKOV, Ye.D., doktor ekon.nauk prof.; SHUKTSTAL', Ya.V., kand.ekon.
nauk, starshiy nauchnyy sotrudnik

Method of calculating national economic costs for passenger
and freight transportation by various types of U.S.S.R. trans-
port. Trudy MIIT no.115:26-55 '59. (MIRA 13:1)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo trans-
porta (for Khanukov). 2. Institut kompleksnykh transportnykh
problem AN SSSR (for Shukstal')
(Transportation--Cost of operation)

BELOV, I.V., dotsent, kand.ekon.nauk; BOROVY, N.Ye., dotsent, kand.tekhn.
nauk; VINNICHENKO, N.G., dotsent, kand.ekon.nauk; RAYKHER, G.S.,
inzh.; KHANUKOV, Yevgeniy Davydovich, prof., doktor ekon.nauk;
KHOKHLOV, N.P., dotsent, kand.ekon.nauk; PESKOVA, L.N., red.;
KHITROV, P.A., tekhn.red.

[Economics of railroad transportation] Ekonomika zheleznodo-
rozhnogo transporta. Pod obshchei red. E.D.Khanukova. Moskva,
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia,
1960. 298 p. (MIRA 14:3)

(Railroads--Finance)

HANUKOV, E.D. [Khamukov, Ye, D.], dr., a kozgazdasagi tudomanyok
doktora, foiskolai tanar; BOROTVAS, Elemer [translator]

Principles of the reasonable traffic division among the
branches of transportation in the Soviet Union. Kozl tud
szl3 no.6:237-247 Je '63.

1. Moszkvai Vasutternok Foiskola' (for Khanukov).

TVERSKOY, Konstantin Nikolayevich; KHANUKOV, Ye.D., retsenzent;
KRISTAL', L.I., red.; BOBROVA, Ye.N., tekhn. red.

[Planning in railroad transportation] Planirovanie na zhe-
leznodorozhnom transporte. Moskva, Transzheldorizdat,
1962. 69 p. (MIRA 15:10)
(Railroads—Management)

PAKHMAM, T.A., kand.ekon.nauk; PONOMAREV, S.A., inzh.; KEDROVA, V.I.
inzh. [deceased]; KHANUKOV, Ye.D., retsenzant; KOLTUNOVA, M.P.,
red.; VASIL'YEVA, N.N., tekhn.red.

[Methodological problems of planning long distance passenger
transportation] Metodicheskie voprosy planirovaniia dal'nikh
passazhirskikh perevozok. Moskva, Vses.izdatel'sko-poligr.
ob"edinenie M-va putei soobshcheniia, 1962. 94 p. (Moscow.
Vsesoluznyi nauchno-issledovatel'skii institut zheleznodorozhnogo
transporta. Trudy, no.231). (MIRA 15:8)
(Railroads--Passenger traffic)

BELOV, Ivan Vasil'yevich, kand. ekon. nauk dots.; BOROVOY, Natan
Yefimovich, kand. tekhn. nauk, dots.; VINNICHENKO,
Nikolay Gavrilovich, kand. ekon. nauk, dots.; RAYZENBERG,
Grigoriy Solomonovich, inzh.; KHANUKOV, Yevgeniy Davidovich,
doktor ekon. nauk, prof.; KHOKHLOV, Nikolay Fedorovich,
kand. ekon. nauk, dots.; PESKOVA, L.N., red.

[Economics of railroad transportation] Ekonomika zheleznico-
dorozhnogo transporta. Moskva, Transport, 1965. 359 p.
(MIRA 18:10)

L 31920-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AT6007971

(A)

SOURCE CODE: UR/0191/66/000/003/0054/0057

AUTHOR: Eotokhina, Ye. S.; Moldavskiy, B. L.; Molotkov, R. V.; Batalin, O. Ye.; Buslovich, Ye. Ya.; Rubinsteyn, E. I.; Ravkina, A. E.; Khrnukova, E. S.; Slobina, A. V.; Lykova, T. A.; Bychkova, V. A.

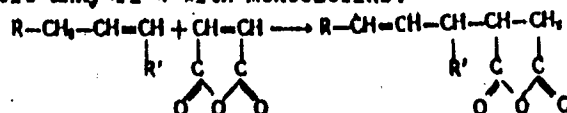
ORG: none

TITLE: Alkenylsuccinic acid anhydrides as hardening agents for epoxy resins

SOURCE: Plasticheskiye massy, no. 3, 1966, 54-57

TOPIC TAGS: epoxy plastic, hardening, solid mechanical property

ABSTRACT: The authors studied the synthesis and use of alkenylsuccinic acid anhydrides as liquid and low-toxic hardening agents for epoxy resins. The anhydrides were synthesized in an electrically heated steel autoclave with a mixing device by the reaction of maleic anhydride with monoolefins:



The following anhydrides were prepared: (acid, boiling point in C, at pressure in mm) crotylsuccinic, 122-147, 8; pentenylsuccinic, 135-148, 8; heptenylsuccinic, 124-210,

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5; and a mixture of isooctenyl- and isononanysuccinic (ASA), 155-169, 8. Epoxy resins ED-5, ED-6, and EDL were hardened by ASA at 140C for 24 hr, using 93-115, 73-93- and 47-57 g of ASA over 100 g of epoxy resins respectively. Using dimethyl-aniline or triethanolamine as the accelerators, the hardening process was accomplished within 1.5-2 hr at 100C. With the exception of thermal stability, which was 25-35C lower, the physicochemical properties of the products obtained resemble very closely those obtained by the use of malonic anhydride as the hardening agent. Orig. art. has: 6 tables, 4 fig., and 1 formula.

SUB CODE: 11,07/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 003

Card 2/2

GOKUN, A.M., inzh.; KHANUTIN, M.B.; YAKOVLEV, V.P.

MKA-10 truck-mounted crane. Stroi. i dor. mash. 6 no.6:4-6
Je '61. (MIRA 14:7)

(Cranes, derricks, etc.)

24808

S/049/61/000/004/001/008
D257/D306

9.9865

AUTHORS: Riznichenko, Yu.V., Shamina, O.G., and Khanutina, R.V.

TITLE: Elastic waves with a generalized velocity in two-dimensional bimorphous models

PERIODICAL: Akademiya nauk SSSR. Izvestiya, Seriya geofizicheskaya, no. 4, 1961, 497 - 519

TEXT: The present paper is an extension of the work of J. Oliver (Ref. 7: Earthq. Not., 27, No. 4, 1956) who suggested the use of layered two-dimensional models for seismic waves in media with parameters varying continuously in space. The models are sheets of variable or constant thickness which are stuck together in the same way as plywood; seismic waves are represented by ultrasonic pulses. The present authors give a theory of long-wavelength longitudinal, transverse and surface waves in bimorphous (two-layered) and polymorphous (many-layered) models. An experimental work on these waves is also reported; its aim was to find the possibilities and li-

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Elastic waves with a ...

imitations of two-layered and many-layered models. The work was limited to a study of vibrations, whose displacement vector lies in the plane of the two-dimensional model. These vibrations are analogous to longitudinal, transverse SV and Rayleigh surface waves in three-dimensional media. Elastic properties of quasi-anisotropic media, consisting of successive isotropic layers with different properties, were discussed in the three-dimensional case by Yu.V. Riznichenko (Ref. 13: Izv. AN SSSR, Ser. gogr. i geofiz. 8, no. 6, 1949). Riznichenko's method is now used in the two-dimensional case. It is assumed that the two layers in the model are thin compared with the wavelength of elastic waves. General equations of the static theory of elasticity and boundary conditions at the faces of the components of the model, deformed by long longitudinal P and transverse S waves, are used to calculate the effective longitudinal and transverse elastic moduli and the velocities of propagation of P and S waves. The expressions are obtained first for the bimorphous (two-layered) case and are then generalized to a many-layered model. The velocities of propagation of long Rayleigh surface waves are calculated

Card 2/5

Elastic waves with a ...

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for single-layered and many-layered plates. A nomogram is given which relates the velocities of P, S and R waves with the Poisson's ratio σ for a massive sample and a plate. The nomogram can be used to find the effective value of σ for a massive sample modelled by a plate. The theoretical expressions were tested by experiments using an ultrasonic pulse source ИКЛ-4 (IKL-4). Piezoelectric Rochelle salt transducers of X-45° cut were used; their dimensions were 10 x 10 x 10, 20 x 20 x 20 and 60 x 40 x 10 mm. The techniques of longitudinal profiles and diagonal transmission were employed to separate longitudinal and transverse waves. Good contact between the working surfaces of the transducers and models was ensured by using castor oil. Models were made of thin sheets of brass, Duralumin, iron, Plexiglas (Perspex) and Getinaks (paper-filled phenolformaldehyde resin). The two-layered models were stuck together by a thin layer of paraffin wax, rubber plasticizer or glue БФ-2 (BF-2). The maximum dimensions of the models were 500 x 600 x 8 mm. The experiments showed that the theory given in the present paper is essentially correct in the case of long waves. It was found that

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if the thickness (h) of two-layered plates is much less than the elastic wavelength (in practice $h/\lambda \leq 0.1$), then P, S and R waves are generated in the plate. The attenuation of longitudinal and transverse waves in two-layered plates obeys the same law as in single-layered plates. This law is

$$A = A_0 \frac{\exp(-\alpha x)}{x^{1/2}},$$

where A_0 is a constant, α is the absorption coefficient per unit path length, and the term $x^{1/2}$ allows for spreading of the wave energy along a circular front. The absolute values of the absorption coefficient α for P waves, and especially for S waves, are larger in the two-layered model than in the individual plates (layers), of which the model is made. A "gradient" medium, in which velocity varies with depth, was modelled by two wedge-shaped plates stuck together. It was found that in such a medium even a small variation of velocity with depth, which cannot be detected by means of hodographs, affects very strongly the amplitudes of the longitudinal waves. There are 16 figures, 2 tables and 24 references: 17

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Soviet-bloc and 7 non-Soviet-bloc. The 4 most recent references to English-language publications read as follows: E. Howes, Tejada-Flores and R. Lee, J. Acoust. Soc. Amer., 25, no. 5, 1953; J. Oliver, F. Press and M. Ewing, Geophys., 19, no. 2, 1954; J. Oliver, Earthq. Not., 27, no. 4, 1956; F. Press, Geophys., 22, no. 2, 1957.

ASSOCIATION: Akademiya nauk SSSR, institut fiziki zemli (Institute of Physics of the Earth, Academy of Sciences, USSR)

SUBMITTED: October 29, 1960

Card 5/5

KHANYAKINA, A.Ya., kand.pedagog.nauk

A gliding "boot". Ortop.travm. i protez. 20 no.7:54-55 J1
'59. (MIRA 12:10)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta
travmatologii i ortopedii (ispolnyayushchiy obyazannosti direktora -
prof.T.S.Grigor'yeva).

(ORTHOPEDICS equipment & supplies)

KHANYAKINA, A.Ya., kand.pedagog.nauk

Suspension apparatus for training poliomyelitis patients to walk. Ortop.,travm.i protez. no.5:51-53 '61. (MIRA 14:8)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - kand.med.nauk Z.P. Lubagina).
(POLIOMYELITIS) (ORTHOPEDIC APPARATUS)

Automation of welding in fabricating cylindrical shells from

SOURCE: Svarochnoye proizvodstvo, no. 1, 1965, 37-38

TOPIC TAGS: welding, automatic welding, submerged arc welding, cylindrical shell welding

ABSTRACT: Automatic welding of cylindrical shells 500 mm in diameter and 1400-1800 mm long, made from low-carbon steel sheets 5 mm has been introduced at an industrial plant. The longitudinal joints are submerged-arc welded from both sides. The flanges are

mechanization of welding

[MS]

Corr. 1/2

ACCESSION NR: AP5002692

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

ATT PRESS: 1, 12

Card 2/2

KHAN YAYEV, B.

1. KHAN YAYEV, B.

Reports of potato disease to 1. 1946. In: Khosbushina no. 70:14-15
(1946)

1. Voprosy razvitiya i ispol'zovaniya mashinostroyeniya
v s'el'skoy khozyaystvennoy mashinostroyeniye.
(Potato diggers)

KHANYZOV, V.

The collection of dues is not a routine matter. Sov. profsoiuzy 7
no. 7:65-66 J1 '58. (MIRA 11:8)

1. Zamestitel' zaveduyushchego finansovym otделom Vsesoyuznogo
tsentral'nogo soveta profsoyuzov.
(Trade unions)

BORISOV, V.P.; SYROVAREV, A.I.; KHANYKOV, V.V.; BLOKHIN, N.N., red.; SHAD-
RINA, N.D., tekhn. red.

[Finances of trade unions of the U.S.S.R.; organization and plan-
ning] Finansy professional'nykh soiuзов SSSR; organizatsiia-i pla-
nirovaniie. Izd.2., perer. i dop. Moskva, Izd-vo VtsSPS Profizdat,
1961. 199 p.
(MIRA 14:8)

1. Moscow. Vysshaya zaachnaya shkola profdvizheniya.
(Trade unions—Finance)

BORISOV, Vladimir Petrovich; KHANYKOV, Vladimir Vladimirovich;
KUZNETSOVA, N.I., red.; SHADRINA, N.D., tekhn.red.

[Financial work of the factory, plant and local trade union
committee] Finansovaya rabota fabrichnogo, zavodskogo i
mestnogo komiteta profsoiuz. Moskva, Izd-vo VTsSPS Profiz-
dat, 1959. 125 p. (MIRA 13:2)
(Trade Unions--Finance)

KHANYKOV, V.V., arkhitektor

An efficient type of locker room equipment. Prom.stroi. 40
no.6:34-37 '62. (MIRA 15:6)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperi-
mental'nyy institut promyshlennykh zdaniy i sooruzheniy.
(Employees' buildings and facilities)

BORISOV, Vladimir Petrovich; KHANYKOV, Vladimir Vladimirovich;
SEMENOV, S.M., red.; SHADRINA, N.D., tekhn. red.

[Budget of the factory and plant trade-union committee]
Budzhët fabrično-zavodskogo komiteta. Moskva, Profizdat,
1961. 78 p. (Bibliotekha profsoiuznogo aktivista, no.15)
(MIRA 16:3)

(Trade unions--Finance)

KHANYKOV, V.V., arkhitektor

Drops in height in one-story industrial buildings. Prom.
stroit. 40 [i.e. 41] no. 6:20-22 Je '63. (MIRA 16:10)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-
eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.

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KHADZHIOLOV,
D.

to
KHANYKOV, V.V.

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